



Monthly Update

JUNE 2004

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The **FEMP MONTHLY UPDATE** is prepared expressly for the Department of Energy's Office of Federal Energy Management Programs (FEMP). The purpose of the **UPDATE** is to provide FEMP management staff with timely information on topics relevant to the program. This includes the status of pending Federal and state legislation and summaries of public and private sector energy-related activities. The **FEMP MONTHLY UPDATE** is prepared for

DOE BULLETIN BOARD

Short-Term Energy Outlook, Energy Information Administration (EIA), June 2004

The EIA's *Short-Term Energy Outlook* found recent events influenced an unpredictable outlook in the near term, especially in expected supply developments and security issues in the Middle East. In May, U.S. gasoline prices surged to \$2.06 per gallon. By the beginning of June, the price began to decline and is expected to continue dropping, assuming there are no disruptions in the crude oil or gasoline markets.

OPEC producers are expected to maintain higher levels of production in response to increased international demand. West Texas Intermediate prices, about \$3.50 higher than in April, averaged about \$40.30 per barrel in May. Unpredicted price spikes are projected to continue due to uncertainties surrounding Middle East instability, terrorism, and worldwide low oil inventories.

OPEC held its 131st meeting on June 3. Both Saudi Arabia and the United Arab Emirates announced their intentions to increase production by a combined 80,000 barrels per day. Additionally, OPEC 10, excluding Iraq, raised the group's crude oil quota to 25.5 million barrels per day from 23.5 million barrels per day as of July 1 and an additional increase to 26 million barrels per day as of August 1.

CONGRESSIONAL ACTIVITIES

CONGRESSIONAL SCHEDULE

- Refer to [Appendix A](#) for the Congressional Calendar of Events.

FY 2005 BUDGET RESOLUTION AND FY 2005 APPROPRIATIONS

House

Last week, the House completed work on the following FY 2005 appropriations bills:

- Full House approved (1) *H.R. 4613 – FY 2005 Appropriations for Defense and* (2) *H.R. 4614 – FY 2005 Appropriations for Energy and Water Development*
- Committee on Appropriations approved (1) *H.R. (unnumbered) - FY 2005 Appropriations for Agriculture, Rural Development, and Food and Drug Administration* and (2) *H.R. (unnumbered) - FY 2005 Appropriations for Commerce, Justice, State and the Judiciary.*

Senate

Last week, the Senate completed work on the following FY 2005 appropriations bill:

- Full Senate approved *S. 2559 – FY 2005 Appropriations for Defense*

See [Appendix B](#) for the chart on the status of the

FY 2005 appropriations bills.

See [Appendix C](#) for provisions of interest covered to date on FY 2005 appropriations bills.

STATUS OF PENDING AUTHORIZATION BILLS OF INTEREST TO FEMP

Senate

Late last week, the Senate unanimously approved that chamber's amendment to *H.R. 4200 - FY 2005 Defense Authorization* bill. **The significance of this bill is that it includes a provision extending through 2005, the use of Energy Savings Performance Contracts to**

finance energy efficiency projects in Federal facilities, both military and civilian. The provision was introduced as a bipartisan effort, led by James Inhofe (R/OK) and Jeff Bingaman (D/NM) among others (19 amendment sponsors). Prior ESPC authorization to fund Federal projects expired on October 1, 2003, and many planned projects had been suspended due to the lack of authorization. In remarks after the Senate passed the bill, Senator Inhofe said, “ESPCs save federal funds, conserve energy and create employment opportunities for Americans, all at no expense to the taxpayer.”

The temporary extension is expected to be followed by either a longer-term or permanent extension, with continued bipartisan support committed to resolving the Congressional Budget Office effort to “score” ESPCs as an expense to the Federal Government.

Comprehensive Energy Legislation No further action has been taken on comprehensive energy legislation during the past month. The House passed bill essentially “renumbers” *H.R. 6 – Energy Policy Act of 2003*, which was passed last year. The Senate has yet to introduce on the Senate floor Committee on Energy and Commerce Chairman Pete Domenici’s new bill (S. 2095), which is a scaled down version of last year Senate bill due to insufficient support in the Senate; no plans have been announced to debate the bill in the Senate.

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FEDERAL AGENCY ACTIVITIES

DEPARTMENT OF AGRICULTURE (USDA)

Renewable Energy Grants Available USDA plans to issue \$13.2 million in grants to support renewable energy projects and support the development of value-added agriculture business ventures on rural lands. Grant funds will be available to independent producers, agricultural producer groups, farmer or rancher cooperatives, and majority-controlled producer-based business ventures. Applicants must express interest in either (1) planning activities needed to establish a viable value-added marketing opportunity for an agricultural product (e.g. conducting a feasibility study; developing a business or marketing plan) or (2) acquiring the working capital to operate a value-added business venture that will allow producers to better compete in domestic and international markets. Awards will be made on a competitive basis with preference given to applicants dedicating 51 percent or more of the project’s costs to planning activities for a bio-energy project. More information, including the application with deadline of July 30, is available at www.rurdev.usda.gov.

DEPARTMENT OF DEFENSE (DOD)

The Air Force has expressed an interest in identifying “mature” sources of solar power generation storage and converter devices capable of performing in concert with commercially available sources and devices of and for solar power generation. The Air Force requires that any such sources or devices have the capability of connecting with flexible solar

panels, such as those embedded in tent fabrics and other solar gain devices; the equipment must have at a minimum, a storage capacity of 100kW. The devices will be used in a Battle laboratory concept demonstration. To obtain additional information on Solicitation Number SPGSCD052, contact Michael Corson at 609-754-7609.

DEPARTMENT OF ENERGY (DOE)

FEMP Issues “Technical Assistance” Call for Projects The Federal Energy Management Program’s FY 2005 Technical Assistance Call for Projects initiative to finance Federal energy projects will provide up to \$500,000 in this year’s cycle; **proposals must be received by July 16, 2004**. Financial assistance awards will range from \$25,000 to \$50,000 per project with technical assistance provided by DOE National Laboratories and contractors. The awards support agency projects requiring technical assistance in the following areas: sustainable new building design; energy and water efficiency retrofits; distributed generation and combined heat and power contributing to energy security and reliability; renewable energy; and operations and maintenance. The scope of work will involve screening project opportunities, performing feasibility studies, reviewing procurement specifications, reviewing designs, and evaluating completed projects. For submitting applications, visit <http://fempcentral.com/tacalls/logon.ta>. DOE will notify applicants by November 12, 2004, whether they have been approved for funding. For further information, view the FEMP website at www.eere.energy.gov/femp/.

DOE NATIONAL LABORATORY ACTIVITIES

National Energy Technology Laboratory (NETL) NETL has opened a Hybrid Performance Facility, known as the “Hyper Facility” at the laboratory’s Morgantown, West Virginia, location. Established by NETL’s Office of Science and Technology, the facility will focus on developing control strategies for the reliable operation of fuel cells-turbine hybrids. Combined systems of turbines and fuel cells are expected to fulfill power requirements at a competitive cost while reducing environmental degradation associated with producing electricity and transportation fuel from fossil fuels. Public research collaboration is available through a variety of programs such as Cooperative Research and Development Agreement in addition to planned NETL studies. To date, NETL has established partnerships with industry and universities including Woodward Governor Company and West Virginia University, among others.

Pacific Northwest National Laboratory (PNNL) PNNL has launched a new website describing PNNL’s work with DOE’s Office of Energy Efficiency & Renewable Energy (EERE). The site includes links to eight EERE programs, including FEMP, and provides information on PNNL’s technical support and expertise provided by PNNL. View the website at <http://eere.pnl.gov/index.stm>.

ENVIRONMENTAL PROTECTION AGENCY (EPA)

ENERGYSTAR®

New Commercial Buildings Expansion EPA is adding a category for new commercial buildings to the ENERGY STAR program. **Commercial buildings, designed with energy efficiency attributes, will be distinguished as “Designed to Earn the ENERGY STAR.”** Expanding the ENERGY STAR designation fulfills recommendations outlined in the President’s *National Energy Policy*. Currently, commercial buildings emit 20 percent of existing greenhouse

gases. EPA hopes the addition of an ENERGY STAR designation for commercial buildings will provide an incentive for the construction of energy-efficient commercial buildings and a reduction in green house gas emissions.

FEDERAL ENERGY REGULATORY COMMISSION (FERC)

No news of interest to report.

GENERAL SERVICES ADMINISTRATION (GSA)

On June 18, GSA, through the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council issued several interim and final rules in the *Federal Register*, as provided below.

Interim Rules

- Amends the Federal Acquisition Regulation (FAR) to implement section 1431 (provides with government-wide authority to treat **performance-based contracts** or task orders for services as commercial items under specific conditions) and section 1433 (amends definition of commercial item to add specific performance-based terminology). Refer to pages 34226-34228 of the June 18 issue of the *Federal Register* or contact Julia Wise at 202-208-1168.

Final Rule

- Amends the FAR by deleting the **cost principle** regarding maintenance and repair costs and by revising the cost principles dealing with contingencies, material costs, and training and education costs. Refer to pages 34242 – 34244 of the June 18 issue of the *Federal Register* or contact Edward Loeb at 202-501-0650.
- Amends the FAR to incorporate policies for services and to strengthen procedures for establishing **Federal Supply Schedule Blanket Purchase Agreements**. Refer to pages 34231 – 34239 34244 of the June 18 issue of the *Federal Register* or contact Linda Nelson at 202-501-1900.

U.S. POSTAL SERVICE

In June, the **U.S. Postal Service announced the agency's interest in pre-qualifying suppliers to audit electric, natural gas, propane, water, steam, and sewer services of up to 37,000 Postal facilities** nationwide. The purpose is to identify and recover any incorrect utility-related charges and to identify future rate adjustments. For further information on Solicitation Number 1AUTIL-04-A-1192, contact Jeffrey Kaufman at 860-285-7340.

ATLANTA REGION

No news of interest to report.

BOSTON REGION

No news of interest to report.

CHICAGO REGION

The Department of the **Navy has announced the agency's interest in securing an enhanced lease agreement for utility systems and distribution at the Naval Training Center located in Great Lakes, Illinois.** Planned utility-related services are expected to include electric and steam distribution and main power plant boilers for a facility in Great Lakes and water, wastewater, and thermal plant systems at a facility in Crane Indiana. For additional information, contact Linda Camellino at 847-688-2600, ext. 149 and refer to Solicitation Number N68950-UP-003.

DENVER REGION

No news of interest to report.

PHILADELPHIA REGION

No news of interest to report.

SEATTLE REGION

No news of interest to report.

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STATE AND LOCAL GOVERNMENT ACTIVITIES

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No news of interest to report.

ATLANTA REGION

No news of interest to report.

BOSTON REGION

The Newton Community Service Center (NCSC) of Newton, Massachusetts, has a new awning crowned with a 2-kW photovoltaic (PV) system, thanks to the Massachusetts Energy Consumers Alliance. The Alliance, which is funded by the Department of Energy's Million Solar Roof Initiative and the Massachusetts Technology Collaborative, manages small scale solar installations in the region. The Alliance currently has plans for 40 PV installations throughout the communities of Newton, Boston, Brookline, and Somerville. David Tannozzini from Newton Public Buildings Department, said, "The high visibility awning style PV system will be used for marketing and outreach to Newton's commercial, institutional and residential sectors. It couldn't be a more public, visible space to show off solar." Information on this project and similar projects is available from the Million Solar Roof Initiative website at www.millionsolarroofs.org.

The Long Island Power Authority (LIPA) plans to add 1,000 MW of new power, including wind power to the region within the next ten years. LIPA intends to install an offshore wind farm with a capacity of 100 to 140 MW. FPL Energy will install 39 turbines with a capacity of 3.6 MW per turbine near the Robert Moses State Park. LIPA's Request for Proposals will be evaluated for fairness and all proposed contracts will be reviewed by the state comptroller and Attorney General to ensure impartial competition. In his 2003 State of the Union address, Governor George Pataki (R) called for a 25 percent statewide Renewable Portfolio Standard (RPS) by 2013, to encourage energy diversity through the use of renewables. Currently, New York State obtains 19.4 percent of its power from renewable energy, largely from hydro facilities at Niagara Falls. Eleanor Stein, an Administrative Law Judge with the Department of Public Service recently issued a report recommending that the State of New York achieve the Governor's proposed RPS goal. (Source: *Refocus Weekly*, June 9 and June 16, 2004)

Dawn Gallagher, the Commissioner of Maine's Department of Environmental Protection (DEP) has approved the construction of the first wind project in Maine and also one of the largest wind facilities in the Northeast region. The Mars Hill Wind Power Project will generate 50 MW of electricity with 30 turbines covering 116 acres along a ridge of Mars Hill. Commissioner Gallagher said, "With this project, Maine is taking a significant step to ease our over-reliance on fossil fuels for electrical generation." Evergreen Windpower, LLC, and the Town of Mars Hill have submitted a project proposal for state review. DEP requires environmental monitoring following construction projects to ensure minimal interference with bird migration and other environmental impacts. (Source: Maine Department of Environmental Protection press release, June 1, 2004)

The New York State Senate has passed legislation allowing homeowners and farmers to utilize wind for net metering. Senator James Wright (R/Watertown), Chairman of the Senate Energy and Telecommunications Committee, who sponsored S. 4890E, said, "Small wind generators have zero emissions and are an environmentally sound source of producing electricity. Use of this technology will allow for users to have clean, low-cost electricity..." The bill adds to legislation enacted in 2002 that allows farmers to use net metering with methane digesters. This is the first time New York has made wind generation available for net metering. The bill has been sent to the State Assembly for consideration. (Source: www.senate.state.ny.us, June 14, 2004)

Vermont Governor Jim Douglas (R) has released his draft policy for encouraging small-scale renewable energy projects; however, the policy does not permit utility-scale turbines. The draft policy promotes renewable energy applications on state lands and calls for exploration of small-scale renewable energy applications such as net-metered wind or solar generation systems and other distributed generation technologies. Public meetings were held in the spring of 2004. Stakeholders are encouraged to comment on the newly released policy and have until August 2 to do so. A copy of the draft policy report is available on the state website at www.vermontwindpolicy.org. Questions and comments can be directed to the Director of State Lands, Mike Frasier at mike.frasier@anr.state.vt.us or 802-241-3682.

CHICAGO REGION

Chicago Mayor Richard M. Daley announced that the city's newest building will be LEED-certified by the U.S. Green Building Council. Mayor Daley stated that the City of Chicago will strive to be the most environmentally friendly city in the United States. The Chicago Center for Green Technology has received a platinum rating, the highest LEED rating, with features including a rooftop garden, rainwater cisterns, smart lighting systems, recycled materials use in building and location on a former brownfield site. Mayor Daley intends to provide an example to

the private sector, especially since LEED certification saves the taxpayer money. (Source: *GreenBiz.com*, June 24, 2004)

DENVER REGION

No news of interest to report.

PHILADELPHIA REGION

On May 26, Maryland Governor Robert Ehrlich (R) signed *HB 1308*, the establishing the state's renewable portfolio standard (RPS). The RPS requires that by 2014, 7.5 percent of the state's electricity be generated from renewable sources. The Public Service Commission will finalize details for implementing the new law. Maryland's RPS is expected to serve as a model for neighboring states and will become effective on July 1, 2004. **Governor Ehrlich also signed legislation (*HB 1269*) to broaden the state's net metering law to include wind energy systems with a capacity up to 80 kW.** With this law, net metering is extended to commercial facilities. Currently, all Maryland utilities must offer net metering to customers with solar energy systems of 80 kW or less. Revisions will take effect on October 1, 2004. (Source: *SolarAccess.Com*, June 2, 2004; *Connecting to the Grid*, June 8, 2004)

SEATTLE REGION

The City of Vacaville, California, has dedicated a new solar electric system, which is located on the rooftop of the Vacaville City Hall, covering 4,100 square feet. The project was completed in October 2003, and generates enough daytime energy to power 40 homes while saving the municipality \$6,500 annually in utility costs. "The use of solar power makes good sense for the City of Vacaville. It provides us with the latest technology for clean energy production and reduces our future operating costs while enabling us to realize greater energy independence," said Mayor Augustine. "We're pleased to be making a significant positive contribution to the quality of our region's environment." Pacific Gas & Electric granted a \$152,757 rebate for the project through their self-generation incentive program. (Source: Powerlight press release, May 5, 2004)

In May, the California Energy Commission and the California Power Authority established a Solar Schools Program to provide funding for the installation of photovoltaic systems at public school sites. The Emerging Renewables Program and Attorney General's Alternative Energy Retrofit Account will provide matching funds at \$3.20/W until available funds are fully subscribed. (Source: *Clean Edge News*, May 27, 2004)

In the beginning of June, General Motors will deliver a new fleet for use by Metro Transit and Sound Transit Regional Express throughout King County, Washington, including the City of Seattle. Senator Patty Murray (D/WA) has secured for the country, \$5 million in FY 2005 Federal transportation funds for 235 hybrid buses. The buses will be fueled by Ultra-Low Sulfur Diesel and electricity and the new fleet is expected to save 750,000 gallons of gasoline annually and lower emissions costs. (Source: GM news release, May 27, 2004)

On June 2, Hawaii Governor Linda Lingle (R) signed several bills in favor of renewable energy. The "20/20" *Senate Bill 2474*, requires that by 2020, at least 20 percent of a utility's electricity sales to come from renewable energy sources. The 20/20 bill was developed in response to a recent study identifying the need for state energy security based on the fact that the state annually imports oil at a cost of \$2 billion to \$3 billion. On the same day, Governor Lingle also signed *House Bill 2048*, which increases the eligible capacity limit of net-metered

systems from 10 kW to 50 kW. Hawaii's original net metering legislation was enacted in June 2001, and required all utilities to offer net metering to commercial and residential customers up to 0.5% of the utility's peak demand. Other recently signed bills include *Senate Bill 1239*, which halves fuel taxes assessed on ethanol, methanol, biodiesel, and other alternative fuels and *House Bill 2049*, which improves the energy efficiency of government buildings through public facility energy retrofit and performance contracts. (Source: *The Honolulu Advertiser*, June 3, 2004)

Premier Homes partnered with the Sacramento Municipal Utility District (SMUD), Consol, and the National Renewable Energy Laboratory to create a zero energy community, the Premier ProEnergy Community, in the Sacramento, California region. Each home includes 2-kW AC solar electric home power system, a tankless water heater that produces 6.5 gallons of hot water per minute, a mechanically designed heating and air conditioning system, spectrally selective glass windows, and tightly sealed air ducts. "Zero Energy Homes provide multiple benefits -- lower energy bills for the homeowner and reduced energy demand on hot summer days when electricity is more expensive and the power grid most utilized," said Paul Bender, SMUD Manager of Power Production. The homes exceed the current California Title 24 energy cooling requirements of Premier Gardens, and as a result, will be certified as a SMUD Solar Advantage Home and an Advantage Homes. Every home in the community qualifies for the ENERGY STAR® homes program. The zero energy homes have been a success, as shown by the rapid rate of sales. (Source: Premier Homes Press Release, June 2004)

MULTIPLE REGIONS

Western Resource Advocates have released *A Balanced Energy Plan for the Interior West*, a strategic plan for the energy future of the Interior west region. This plan models the growing energy needs of the interior west region of Arizona, New Mexico, Nevada, Utah, Colorado, Wyoming, and Montana and forecasts an increase in energy consumption on account of growing urban areas up to 2020. The authors recommend that 20 percent of the region's electricity fuels be transitioned from fossil fuels to renewable energy and combined heat and power. Additionally, the plan calls for a significant yet attainable investment in energy efficiency. The authors suggest that implementation of the plan will result in lower electricity production costs and natural gas prices, a reduction in carbon dioxide emissions and smog pollutants, and a decrease in water consumption and equivalent levels of electric system reliability. The report is available on www.westernresourceadvocates.org/energy/bep.html.

Western Governors' Association Last week, during the Western Governors' Association (WGA) annual meeting, members adopted a resolution to "examine the feasibility and actions required to reach a goal of 30,000 megawatts of clean energy by 2015 and a 20 percent improvement in energy efficiency by 2020." The resolution, which was prompted by the combined efforts of the outgoing WGA Chair, Bill Richardson (D/NM) and the new Governor of California, Arnold Schwarzenegger. To reach the goal, WGA has formed a new working group composed of various stakeholders from member states, including environmental organizations; state and local officials, Native American leaders, Federal agencies, the private sector, and other interested parties. For more information, go to the organization's web site at www.westgov.org/wga/press/energy.

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UTILITIES AND SUPPLIER ACTIVITIES

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No news of interest to report.

ATLANTA REGION

No news of interest to report.

BOSTON REGION

No news of interest to report.

CHICAGO REGION

No news of interest to report.

DENVER REGION

No news of interest to report.

PHILADELPHIA REGION

► *Restructuring Activities*

PECO Energy and wind supplier, Community Energy, is providing the first utility-offered wind energy option in Pennsylvania. 'PECO Wind' is available for residential and commercial customers in Philadelphia and six counties. The wind power is offered in blocks of 100 kWh for a monthly premium of \$2.50 per block. Each block will be added to the customer's monthly bill. Over 500 PECO customers have signed up for the program and, as additional customers join, more wind power is able to come on-line. (Source: *Refocus Weekly*, June 2, 2004)

SEATTLE REGION

No news of interest to report.

MULTIPLE REGIONS

► *Restructuring Activities*

The Navajo Tribal Utility Authority (NTUA) has installed 63 solar and wind power systems in remote homes throughout the Navajo Nation. The power stations consist of 880-W solar photovoltaic systems by SunWize Technologies, wind turbines by Southwest Windpower, and a battery bank. Navajo Nation covers 25,000 square miles in northeastern Arizona, northwestern New Mexico, and southeastern Utah. NTUA estimates that 18,000 homes within Navajo Nation do not have access to an electrical power connection. (Source: *EERE Network News*, June 9, 2004)

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PRIVATE SECTOR

GENERAL ANNOUNCEMENTS

Pledges of increased funding for renewable energy have characterized the recent four-day International Conference for Renewable Energy in Bonn, Germany. During the early June meeting, the World Bank Group announced a 20 percent per year increase in lending over the next five years for renewable energy and energy efficiency projects; this increase represents, about \$400 million in funding. Since 1980, the Bank has been the largest lender for renewable projects; current investments total more than \$6 billion. The United Nations Environment Programme (UNEP) predicted the market for renewable investments will reach \$2 trillion in the next 15 years and encouraged development of products and new technologies for the growing market. UNEP has launched three geothermal energy projects in conjunction with the Global Environment Facility (GEF) in points throughout the globe. The GEF has provided \$900 million for more than 110 projects in 50 countries. German Environment Minister Juergen Trittin summarized the conference results as "The age of renewables has begun." (Source: *Environmental News Service*, June 4, 2004; *Greenbiz.Com*, June 3, 2004)

aero-life aeration systems, a manufacturer of restaurant and food service operation wastewater treatment systems, has developed a new pretreatment aeration system with benefit to energy savings and water quality. Developed in conjunction with Sandia National Laboratory, the system operates within restaurant grease traps by increasing the levels of dissolved oxygen to facilitate the breakdown of waste material at its point of generation. The new technology requires only 40W to 60W of 110V power. By treating the waste material on site, restaurant operational costs can be reduced by as much as \$10,000 per year. The high levels of oxygen neutralize the acidic conditions found in traditional anaerobic digestion, resulting in effluent much cleaner for the sewer system and the surrounding community. aero-life aeration systems currently have systems installed in more than 40 restaurants, national chains, and food service operations in New Mexico. The Alliance to Save Energy nominated aero-life systems for a Star of Energy Efficiency award due to their exemplary contribution to energy efficiency during the past year. (Source: *GreenBiz.com*, June 4, 2004; *PRNewswire*, June 15, 2004)

ATLANTA REGION

The North Carolina Solar Center and the North Carolina State University have launched one of the first Renewable Energy Diploma Series to advance renewable energy through continuing education. Beginning November 1, 2004, the sponsors intend to offer a program of comprehensive study of renewable energy topics, including solar and wind electrical production, solar thermal technologies, and alternative fuels production. The Renewable Energy Diploma Series was designed for electrical contractors, building and electrical inspectors, builders and architects, small business owners, land owners, plumbers, HVAC firms, engineers, and others interested in advancing their knowledge of renewable energy. For more information, contact Lyra Rakusin at lyra_rakinson@ncsu.edu or 919-513-7769.

BOSTON REGION

The Solaire in Lower Manhattan, New York, is the first residential high-rise complex to earn LEED Certification from the U.S. Green Building Council. Photovoltaic panels span

the height of the 27-story building and cover the glass canopy that arches over the entrance and part of the roof. The solar electric system supplies five percent of the building's electricity and the lobby is made out of renewable cork. Air-tight windows and construction techniques keep mold and containment outside while heating and cooling with high energy efficiency systems are kept inside. Although construction costs were 17 percent higher than those of a comparable conventional building, implementing green measures can lower long-term costs. A state tax credit for green buildings helped alleviate some of the construction cost. (Source: *Columbia News Service*, May 13, 2004)

CHICAGO REGION

The Lawrence Group, an architecture and design firm is investing \$14.5 million into greening the historic Security Building in downtown St. Louis, Missouri. The Lawrence group hopes to make the 112 year old building a trendsetter; only two historic buildings out of a total of 107 buildings have been certified by the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED). To meet the LEED standards, the Lawrence Group is focusing on ways to create energy and resource savings through the use of high-efficiency mechanical systems; glazing to make windows airtight; white coating on the roof to deflect heat; and healthy paint, carpeting, and materials. The largest energy savings will be found in the addition of insulation to the brick building, which was constructed without it. Additionally, a domed two and one half story lobby will be added along with a six-level atrium space to supply natural light and add a distinctive character to the building. The group will finance the project with about \$3 million in incremental tax financing from the city, \$4.8 million in state and Federal historic tax credits, and \$1 million or more in state tax credits for removing hazardous materials. (Source: *St. Louis Post-Dispatch*, June 12, 2004)

DENVER REGION

No information of interest to report.

PHILADELPHIA REGION

No news of interest to report.

SEATTLE REGION

The solar electric system covering the top of the headquarters of Toyota Motor Sales U.S.A., Inc. in Torrance, California is surpassing energy performance expectations. The South Campus complex is the largest green commercial building to receive a Gold Level Certification from the U.S. Green Building Council's LEED program. The building includes 624,000 square feet of office space to support 2,500 employees and includes a new solar array to reduce energy costs, lower pollution, and conserve natural resources. Since the system's startup, the building operates at 100 percent reliability and has produced over 100 percent of energy savings expected. (Source: *Business Wire*, May 12, 2004)

The Fortune 500 company, Office Depot, has purchased approximately 12 million kWh/year of renewable energy for facilities in 12 California locations. The two-year green power agreement with Strategic Energy provides Office Depot with electricity generated by landfill gas and is Office Depot's first renewable power purchase. "Office Depot's mission is to be the industry leader in the conservation of our natural resources," said Tyler Elm, Director of Environmental Affairs for Office Depot. "Our commitment to purchasing green power enables us not only to enhance our quality of life, but also helps to begin shifting the paradigm related to

how companies purchase their energy. To date, a limited number of Fortune 500 companies have purchased renewable energy, putting Office Depot in an exclusive group that is beginning to make a difference." (Source: *Business Wire*, June 10, 2004)

MULTIPLE REGIONS

Ford Motor Company and BP are collaborating to bring hydrogen-fueled transportation to the metropolitan communities of Sacramento, California; Orlando, Florida; and Detroit, Michigan. Within these areas, BP intends to open a network of hydrogen pumps and in each location, Ford will station up to ten of the Ford Focus fuel cell vehicles. The proposal is in response to Department of Energy's solicitation, "Controlled Hydrogen Fleet and Infrastructure Demonstration and Validation Project." (Source: *Clean Edge News*, May 18, 2004)

INTERNATIONAL

Employing a corporate environmental plan similar to the U.S. Green Business Council's LEED program, the IKEA Group recently completed an IKEA furniture store in Vaughn, Toronto. The store features environmental construction materials including ACFoam-II from ENERGY STAR® member Atlas Roofing Corporation, HVAC units and non-ozone depleting refrigerant from Aeon Inc, and wall panels made from flax waste and plaster board Faay Vianen. IKEA seeks store locations on brownfield sites located in densely populated urban areas, preferably near a public transit stop that require rehabilitation. Every IKEA store hosts three compactors to facilitate moving recyclables to the market. The products sold by IKEA are made from recyclable, biodegradable, and easily renewable wood sources that are harvested from non-environmentally sensitive areas. IKEA is expanding green practices with the addition of solar panels in the company's Pittsburgh store and wind power purchases through a utility in Calgary, Canada. (Source: *Environmental Design + Construction*, April 2004)

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MEETINGS, CONFERENCES, AND TRAINING WORKSHOPS

- Refer to [Appendix D](#) – New Technologies
- Refer to [Appendix E](#) – Calendar of Upcoming Events.

MULTIPLE REGIONS

The Association of Energy Engineers currently offers nine online seminars of interest to readers. Seven of the nine seminars offered include: Natural Gas Cost Control on July 7, Optimizing Boiler Efficiency on July 12, Energy Auditing Fundamentals on July 13, 3D Load Profiling Using Interval Meter Data on July 21, Strategic Energy Planning on August 2, Fundamentals of Lighting Efficiency on August 5, and Effective Energy Management Program Development on August 16. Two other seminars Facilities Management: Essentials and Critical Strategies for Success and Motors: Operation, Efficiency, and Economics are offered on July 26. The Natural Gas Cost Control seminar covers seven topics: natural gas price volatility, budget estimation techniques, future pricing projections, utility supply, procurement options, and delivery contracts. The Optimizing Boiler Efficiency seminar provides information on how to monitor, assess, correct, reduce, tune up,

and measure boiler performance, maintenance, and optimization. The Energy Auditing Fundamentals seminar includes an overview on the site visit phase, analysis of audit data, energy and economic saving opportunities, proper application of energy rates, audit software tools, and development of an effective audit report. The 3D Load Profiling Using Interval Meter Data seminar offers an understanding of electrical loads and strategies for cutting energy costs. The Strategic Energy Planning seminar provides techniques, methodologies, templates, performance scorecards, energy baseline maps, action plans, and monitoring strategies to develop an effective strategic energy plan.

The Fundamentals of Lighting Efficiency seminar provides training on energy audits, high-lighting quality, energy savings calculations, control strategies, maintenance practices, and environmental practices for energy-effective lighting systems. The Effective Energy Management Program Development seminar covers fundamentals for developing an energy management program, including procurement, equipment purchasing, measurement and verification, communications, consumption targets, and loop systems. The Facilities Management: Essentials and Critical Strategies for Success seminar provides information on fundamentals of electricity, industrial safety systems, capital-intensive plant equipment, preventive maintenance of mechanical and electrical equipment, and improving HVAC mean time between failures (MTBF). The Motors: Operation, Efficiency and Economics seminar covers strategies to improve electric motor efficiency and performance, motor related energy costs, motor related energy saving opportunities, and calculations of energy and dollar savings realized. For more information, go to www.aeecenter.org/training or www.aeecenter.org/realtime.

On July 13, the Department of Energy's Federal Energy Management Program will rebroadcast the live April 20, 2004 online workshop, entitled Distributed Generation and Combined Heat and Power. The workshop provides Federal Government participants and associated organizations with an introduction to distributed energy (DE). Topics covered include advantages of using CHP, an overview on distributed energy resource technology, energy-savings and economic benefits, energy security, financing distributed energy projects in Federal facilities, utility and interconnection siting issues and Federal case studies. For more information and to register online, visit www.eere.energy.gov/femp/technologies/derchp_training.cfm.

ATLANTA REGION

The American Society of Mechanical Engineers is holding the conference, 2004 ASME Heat Transfer/Fluids Engineering in Charlotte, North Carolina, on July 11-15. The conference will cover eleven technical tracks with one track focusing on energy systems. For more information, visit www.asmeconferences.org/HTFED04/TechnicalProgramOverview.cfm.

The International Urban Planning and Environmental Association and the Center for Environmental Policy and Management are sponsoring the Sixth Symposium of the International Urban Planning and Environment Association, in Louisville, Kentucky on September 4-8. The symposium will discuss strategies for planning, defining, measuring, promoting, pursuing, and identifying best practices examples for sustainable design. For more information, visit <http://cepm.louisville.edu/IUPEA6/about2.html>.

BOSTON REGION

Reminder → The U.S. Department of Energy, in concert with the Department of Defense and the General Services Administration is sponsoring **Energy 2004** in Rochester, New York, on August 8-11. *Energy 2004* offers a myriad of networking opportunities with energy professionals from throughout the U.S. and provides information on the latest strategies and products for saving energy in buildings. Four of the many features of the conference will include distinguished opening plenary speakers, closing plenary speakers, pre-workshops, and post-workshops. The opening plenary session on August 9th will include leaders from the Department of Defense, the Department of Energy's Regional Offices, and Department of Energy's Office of Energy Efficiency and Renewable Energy. The closing luncheon plenary session on August 11th will feature Stephen Perry, Administrator of the General Service Administration and other senior executives from the Department of Energy and the Department of Defense. The conference will provide six pre-workshops from August 4-6 and include the following: Fundamentals of Measurement and Verification, Applying the New IPMVP, Skills Update III for Certified Energy Managers, Advanced Lighting Applications: Taking Your Lighting Systems to the Next Level, Cost Effective Commercial and Industrial Solar Applications, Strategic Energy Planning Workshop, and Introduction to Distributed Generation and Combined Heat and Power for Federal Energy Professionals. Eight post workshops will be held from August 8-12 and include the following: BAMF Baseball, Continuous Commissioning® – Your Best Energy Efficiency Investment After People, LEED Intermediate Training Workshop, DOE BestPractices Steam End User Training; Control Systems; Energy Project Financing; Resource Efficiency Management (REM), Doing Business with the Federal Government, and Vendors: Are You Ready for Business with the U.S. Government? For more information on the pre- and post- workshops, visit www.energy2004.ee.doe.gov/pre-post.htm.

CHICAGO REGION

HPAC Engineering is sponsoring, Engineering Green Buildings in Cleveland, Ohio, on July 20-23. The conference includes training sessions and case-study discussions on new construction, renovation, and operations and management for commercial, industrial, and institutional buildings. For more information, visit www.hpac.com/products/egb.htm.

The Stuart Graduate School of Business is sponsoring, BELL 2004: Building a Sustainable City through Sustainable Enterprise in Chicago, Illinois, on July 22-24. The conference will cover case studies and recent research on sustainability. For more information, visit www.stuart.iit.edu/bell.

DENVER REGION

The Corporation for the Northern Rockies is sponsoring, Sustainability Fair 2004 in Livingston, Montana, on July 10. The fair will showcase over 70 vendors of sustainable goods, services and mini-workshops. For more information, visit www.northrock.org.

The National Association for Environmental Management is sponsoring, Implementing a Strategic Environmental Management System: Tips, Traps, Tools, and Techniques in Denver, Colorado, on July 9. The one day course will cover the successful implementation of environmental management systems. For more information, visit www.naem.org.

PHILADELPHIA REGION

The Department of Energy's Philadelphia Regional Office is holding a workshop titled, "Mid-Atlantic CHP Applications Center Roadmapping Workshop," in College Park, Maryland, on July 8. The one-day workshop at University of Maryland will cover CHP updates in the Federal and Mid-Atlantic sectors and a tour on a 27 MW CHP system and integration test center. For more information and online registration go to www.chpcenterma.org/news/workshop.htm.

The Department of Energy's Philadelphia Regional Office is holding the "U.S. DOE Mid-Atlantic Hydrogen Learning Workshop," in Annapolis, Maryland, on September 8. The workshop will include an overview on fuel cells and hydrogen production, delivery, storage, safety, economy, and commercialization. For more information, visit www.eere.energy.gov/pro/cfml/events_detail.cfm/events_id=361?print.

The University of Pennsylvania is holding the conference, Bridging the Gap: Sustainable Environment, in Philadelphia, Pennsylvania, on September 16-18. The conference will focus on the roles of the private, public, and non-governmental sectors to encourage global implementation of environmentally sound technologies and sustainable environmental strategies. For more information, visit <http://opim.wharton.upenn.edu/gc/?sec=3&page=philadelphia/overview>.

The Department of Energy's Federal Energy Management Program and the Federal Interagency Energy Policy Committee are sponsoring the Federal Energy and Water Management Awards, in Arlington, Virginia on October 28. The awards honor individuals and organizations contributing to the efficient use of energy and water resources in the Federal government in five areas: conservation and efficient use of energy and water; new and emerging energy technologies; innovative strategies, best practices and applications; renewable energy sources; alternative financing; and energy-efficient mobility by the Federal government. For more information, visit www.eere.energy.gov/femp/services/awards_fewm.cfm.

SEATTLE REGION

SolWest is holding SolWest Renewable Energy Fair in John Day, Oregon, on July 23-25. The fair includes 50 free workshops on off-grid, grid-intertied renewable energy, and sustainable living topics. The fair will also feature 50 exhibitors promoting solar, wind, biofuels, and agricultural resources. For more information, visit www.solwest.org.

The Used Building Materials Association is sponsoring the Deconstruction and Building Materials Reuse Conference in Oakland, California, on September 1-3. The conference will cover green building and deconstruction connections and Leadership for Environmental Energy Design among other topics. For more information, visit <http://s23.2coolweb.com/decon04/index.htm>.

The Department of Energy's Bonneville Power Administration is sponsoring, Energizing the Northwest, Today and Tomorrow, in Portland, Oregon, on September 28-29. The conference will explore innovative methods for energy efficiency and transmission adequacy to maintain the reliability of the electric system and the quality of the environment. For more

information, visit

www.bpa.gov/corporate/education/conferences_and_events/energizing_the_northwest.

The Department of Energy's Federal Energy Management Program has announced the next meeting of the Federal Utility Partnership Working Group (FUPWG), which is scheduled for October 14-15, in Downey, California. The working group will meet to learn more about new Federal energy management success stories, and receive updates on Federal energy programs, products, and other relevant FEMP and utility-related issues. For more information, visit www.eere.energy.gov/femp/financing/uescs_fupwgmeetings.cfm.

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STUDIES, REPORTS, AND ANALYSES

ENERGY AND WATER CONSERVATION

Alternate Energy Reference Book, Association of Energy Engineers, June 2004

This book examines technical and non-technical emerging energy management and technology development. Topics covered in detail include technology assessments for specific alternative energy resources, an overview of problems associated with conventional energy consumption, and a discussion of technology implementation issues. A summary of the book is available at www.aeecenter.org/books.

Information Technologies for Energy Managers, Association of Energy Engineers, June 2004

This book is designed for energy managers with an emphasis on computer networking. Topics covered include facility operation databases and the basic concepts for successfully purchasing, installing, and operating web-based energy information and control systems. A summary of the book is available at www.aeecenter.org/books.

Lighting Upgrades: A Guide for Facility Managers, 2nd Edition, Association of Energy Engineers, June 2004

This reference book covers all aspects of lighting in the workplace, including the fundamental principles of quality lighting, light's impact on conservation, productivity and occupant safety, upgrade strategies, lighting applications, current technologies, lighting economics, effective maintenance, lighting project implementation, and strategies for assessing energy and cost saving opportunities. A summary of the report is available at www.aeecenter.org/books.

SOLAR AND RENEWABLE ENERGY

Renewable Energy Development on Tribal Lands, Department of Energy, March 2004

This concise, 12-page brochure outlines the development of renewable energy, including wind, photovoltaic, biomass and geothermal energy systems, for 45 projects on tribal lands. Project highlights include development of strategic plans by nine tribes, assessment of renewable energy resources by 31 tribes, and active renewable energy projects by five tribes. The brochure, DOE/GO-102004-1869, can be downloaded at www.nrel.gov/docs/fy04osti/35509.pdf.

Building a Market for Small Wind: The Break-Even Turnkey Cost of Residential Wind Systems in the United States, Lawrence Berkeley National Laboratory (LBNL), April 2004

LBNL examines the break-even, turnkey cost of residential wind systems, less than or equal to 100-kW. The findings show that the economics of residential, grid-connected small wind systems are highly variable by state, that a significant cost reduction is needed to make small systems viable in the marketplace, and that state-based cash incentives have the most significant impact on the development of small scale systems. The report, LBNL-54865, can be viewed at www-library.lbl.gov/docs/LBNL/548/65/PDF/LBNL-54865.pdf.

North American Renewable Energy Finance Directory, American Council on Renewable Energy (ACORE), June 2004

The *Directory* serves as a tool for project developers and entrepreneurs requiring capital and for investors seeking financing vehicles. Another feature of the *Directory* is the listing of domestic financial resources for renewable energy and energy efficiency. Over 100 firms involved in renewable energy financing are listed in the *Directory*. ACORE plans to release a draft of the *Directory* at their finance conference in New York on June 23 -24. Visit www.americanrenewables.org for more information or to register an organization in the *Directory*.

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APPENDIX A

STATUS OF FY 2005 APPROPRIATIONS BILLS

- Red text highlights developments since the last issue of *INSIGHTS*.

(In Billions)

HOUSE

SENATE

Jurisdiction/ FY 2004 Budget Request (In Billions)	302(b) Discretionary Allocations/ Approved Funding Level (In Billions)	Bill No.	Full Cmte. Mark Up	Floor Vote	Vote on Conf Rpt.	302(b) Discretionary Allocations/ Approved Funding Level (In Billions)	Bill No	Full Cmte. Mark Up	Floor Vote	Vote on Conf. Rpt.
Agriculture \$16.569	\$16.78 \$16.77	H.R. _____	6/23			TBD				
Commerce \$39.553	\$39.78 \$39.8	H.R. _____	6/23			TBD				
Defense \$392.585	\$392.14 \$416.9	<i>H.R.</i> 4613	6/16	6/2 2		TBD \$416.2	S. 2559	6/22	6/24	
Energy and Water Development \$27.938	\$27.99 \$28.0	<i>H.R.</i> 4614	6/16	6/25		TBD				
Homeland Security \$31.104	\$32 \$32	<i>H.R.</i> 4567	6/9	6/18		TBD \$33.1 \$32	S. 2537	6/17		
Interior \$19.982	\$19.73 \$19.5	<i>H.R.</i> 4568	6/9	6/17		TBD				
Labor/HHS \$142.050	\$142.05					TBD				
Military Construction \$9.553	\$9.553	<i>H.R.</i> 4424				TBD				
Transportation and Treasury \$25.714	\$25.714					TBD				
VA/HUD \$92.129	\$92.129	<i>H.R.</i> 4423 (VA) <i>H.R.</i> 4421 (EPA)				TBD				

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APPENDIX B
FY 2005 APPROPRIATIONS COVERED TO DATE

(Summary of Provisions of Interest)

Agriculture, Rural Development and Food and Drug Administration
(page 22)

Commerce, Justice, State, and the Judiciary
(page 23)

Defense
(page 24)

Energy and Water Development
(page 25)

Homeland Security
(pages 26-27)

Interior and Related Agencies
(page 28-29)

AGRICULTURE, RURAL DEVELOPMENT, AND FOOD AND DRUG ADMINISTRATION

(Bill not yet in Print)

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. (unnumbered)</i> \$16.77 Billion (Passed the Committee on Appropriations on 6/24)	SENATE BILL S. ____ \$ ____	BUDGET REQUEST (Discretionary Funding) \$16.569 Billion
DEPARTMENT OF AGRICULTURE Buildings and Facilities and Rental Payments Animal Plant Health Inspection Service, Building and Facilities Agriculture Marketing Service Agriculture Research Service Renewable Energy Program for Farmers	 \$15.5 Million in energy grants and loans to farmers for renewable energy technologies.		
FOOD AND DRUG ADMINISTRATION Facilities General Provisions			

COMMERCE, JUSTICE, STATE, AND THE JUDICIARY

(Bill not yet in Print)

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. (unnumbered)</i> \$39.8 Billion (Passed the Committee on Appropriations on 6/24)	SENATE BILL S. ____ \$ ____	BUDGET REQUEST (Discretionary Funding) \$39.553 Billion
DEPARTMENT OF COMMERCE National Institutes of Standards and Technologies, Facilities National Oceanic and Atmospheric Administration, Facilities			
DEPARTMENT OF JUSTICE U.S. Marshals Service, Facilities Federal Bureau of Investigation, Facilities Bureau of Prisons, Facilities			
DEPARTMENT OF STATE Embassy Security, Construction, and Maintenance			

DEFENSE

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. 4613</i> \$416.9 Billion (Passed the Committee on Appropriations on 6/23)	SENATE BILL <i>S. 2559</i> \$416.2 (Passed the Senate on 6/24)	BUDGET REQUEST (Discretionary Funding) \$392.585 Billion
Embassy Security, Construction, and Maintenance Building Protection	\$20 Million Unspecified Funding for domestic and overseas installations that would benefit from window barrier protection.		Statement Of Administration Policy Administration supports passage of <i>H.R. 4613</i> Administration supports passage of <i>S. 2559</i>

ENERGY AND WATER DEVELOPMENT

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. 4614</i> \$28 Billion (Passed the House on 6/25)	SENATE BILL S. ____ \$ ____	BUDGET REQUEST (Discretionary Funding) \$27.938 Billion
ALL AGENCIES UNDER BILL'S JURISDICTION DEPARTMENT OF ENERGY Renewable Energy Programs	Directs all agencies to develop five-year budget plans for programs and agencies. \$343.173 Million <div style="background-color: yellow;">\$1,967 Million Departmental Energy Management</div> \$82.733 Million Solar \$41.6 Million Wind \$95.325 Million Hydropower \$72.596 Million Biomass and Biorefinery Systems R&D \$17 Million Intergovernmental \$20.711 Million Program Direction (includes funding to Improve project management at Golden Field Office)		Statement Of Administration Policy Administration supports passage of <i>H.R. 4214</i> : <ul style="list-style-type: none"> - Encourages the House to fund the President's Hydrogen Fuel Initiative – encourages restoration of the House's \$31 million funding cut for fuel cell technologies
Electricity Transmission and Distribution	\$75.345 Million		

HOMELAND SECURITY

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. 4567</i> \$32 Billion (Passed the House on 6/18)	SENATE BILL <i>S. 2357</i> \$32 Billion (Passed the Committee on Appropriations on 6/17)	BUDGET REQUEST (Discretionary Funding) \$31.104 Billion
Headquarters Facility – Consolidation and Co-location of Offices	\$65.081 Million for construction and related activities.	\$65.081 Million for alternation and improvement of facilities and for relocation costs to consolidate headquarters' operations	Statement Of Administration Policy Administration supports passage of <i>H.R. 4567</i> Administration supports passage <i>S. 2357</i>
DHS Facilities (General)		Unspecified Funding Directs DHS to report by 2/1/05, feasibility of establishing separate Homeland Security Pacific Region	
Bureau of Customs and Border Protection	\$91.718 Million to plan, construct, renovate, equip, and maintain buildings and facilities.	\$91.718 Million to plan, construct, renovate, equip, and maintain buildings and facilities	
Immigration and Customs Service (Air and Marine Interdiction Operations, Maintenance, and Procurement)	\$26.179 Million for construction, renovation, equipment, and maintenance of facilities.	\$26.179 Million for construction, renovation, equipment, and maintenance of facilities	
U.S. Coast Guard (Acquisition, Construction, and Improvements)		Unspecified Funding for shore facilities (notes that USCG invests in modern structures that are more energy-efficiency)	
U.S. Secret Service		\$3.633 Million for facility upgrades, continue development of Master Plan, and maintain and renovate existing facilities, including Rowley Training Center)	
Federal Law Enforcement Training Center	\$37.917 Million for additional property and facilities, construction,	Unspecified Funding for expansion and maintenance at facility	

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	maintenance, improvements, etc.	(and minor construction projects at four other buildings)	
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INTERIOR AND RELATED AGENCIES

KEY PROGRAM ACTIVITY	HOUSE BILL <i>H.R. 4568</i> \$19.5 Billion (Passed the House on 6/17)	SENATE BILL S. ____ \$ ____ Billion	BUDGET REQUEST (Discretionary Funding) \$19.982 Billion
DEPARTMENT OF ENERGY Energy Conservation	\$656.071 Million \$17.9 Million Federal Energy Management Program \$64.884 Million Building Technologies \$62.480 Million Distributed Energy Resources \$84.940 Million Industrial Technologies \$12.680 Million Biomass and Biorefinery Systems \$71 Million Fuel Cells \$167.356 Million Vehicle Technologies \$84.667 Million Intergovernmental \$90.164 Million Program Management		Statement Of Administration Policy Administration supports passage of <i>H.R. 4568</i>
DEPARTMENT OF THE INTERIOR U.S. Fish and Wildlife Service	\$48.4 Million for construction, improvement, acquisition or removal of buildings and other facilities.		
National Park Service	\$297.628 Million for construction, improvements, repair, or replacement of physical facilities. \$94.690 Million for maintenance repair or rehabilitation projects for constructed assets, etc.		

Smithsonian Institution	\$122.9 Million for repair, revitalization, and alteration of facilities and construction		
National Gallery of Art	\$11 Million for repair, restoration, and renovation of buildings, grounds and facilities.		
JFK Center for the Performing Arts	\$10 Million for construction		
DEPARTMENT OF AGRICULTURE			
U.S. Forest Service	Unspecified Funding for construction, reconstruction, maintenance, and acquisition of buildings and facilities		

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APPENDIX C

HEARINGS SCHEDULE

HOUSE – APPROPRIATIONS

No hearings, mark ups, or votes of interest have been scheduled.

HOUSE – AUTHORIZATIONS/OVERSIGHT

No hearings, mark ups, or votes of interest have been scheduled.

SENATE – APPROPRIATIONS

No hearings, mark ups, or votes of interest have been scheduled.

SENATE – AUTHORIZATIONS/OVERSIGHT

No hearings, mark ups, or votes of interest have been scheduled.

CONFERENCE COMMITTEE NEGOTIATIONS/FLOOR VOTES

No activities of interest have been scheduled.

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APPENDIX D – NEW TECHNOLOGIES

For informational purposes only. Listing does not imply endorsement.

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
HVAC			
ACH550 DriveIT Low-Voltage ac drive series	ABB	1-500 hp ac drives provide precise motor control across commercial HVAC applications allowing easier functionality.	www.abb.com
BTU 1000	E Instruments	Portable boiler tuning unit and flue gas analyzer. Provides functions of servicing and maintaining boilers, heaters, and other applications. Analyzes O ₂ or CO ₂ and calculates CO ₂ and CO ambient levels. Serves as draft and differential pressure meter.	www.einstrumentsgroup.com
PA4000 Portable Air Conditioner	APC	Portable air conditioner designed for localized cooling in small areas. Provides up to 4kW of air conditioning. Programmable built-in scheduled operation to supplement existing air conditioning systems.	www.apc.com
SmartComfort™ Enviromax™ 2400	Tempstar, International Comfort Products	Residential air conditioner uses R-410A and achieves 14 SEER. Allows easy access to refrigerant ports and connections.	www.tempstar.com
LIGHTING			
cal-LIGHT 400	Cooke	Calibrated, precision, lightmeter measures the amount of light that falls on a surface. Uses silicon photodiode sensor to measure light. Certifiably calibrated and recognized by the American National Institute of Standards and Technology.	www.cookecorp.com
Mark 10 Powerline electronic dimming ballast line	Advance Transformer	One- and two-lamp long twin-tube fluorescent lamp applications. Feature dedicated voltage of 120/277-V, 60-Hz and able to control 36- and 39-W lamps in addition to 40-W lamp-only option. Simple installation and cost-effective process.	www.advancetransformer.com
T5HO high range voltage (HRV) AccuStart 5 ballasts	Universal Lighting Technologies	Available in two and four lamp configurations allowing 347 to 480 V and long lamp life in frequently switched applications. Incorporates end-of-lamp-life shutdown	www.universalballast.com

F E M P M O N T H L Y U P D A T E

TECHNOLOGY	MANUFACTURER	MANUFACTURERS CLAIM	CONTACT
		circuitry ensuring safe operation.	
ENERGY MANAGEMENT TOOLS			
Bill Analyst	Itron	Software tool enables large energy and water users to control utility costs, increase accountability, and empower more effective conservation initiatives.	www.itron.com
InSight™	GE Infrastructure Water & Process Technologies	Web-based 24/7 monitoring service helps reduce water, energy, and labor costs. Protects capital equipment and minimizes environmental, health, and safety concerns. Offers understanding and control of critical water utility and process operations.	www.gewater.com
MISCELLANEOUS			
Pulsar EX RT	MGE	UPS incorporates Ballard Power Systems' Nexa RM series 3200-VA fuel cell modules. Offers power protection optimized for maximum reliability and long backup times for high density IT applications and servers. Provides backup times of 4 to 24 hours or more as long as hydrogen is available.	www.mgeups.com
Reflectix	Reflectix Inc.	Seven-layer insulation material for use in commercial, industrial, metal building, post-frame buildings. Provides single bubble, standard edge and staple tabbed product lines. Two outer layers of aluminum foil reflect 97 percent of radiant heat.	www.reflectixinc.com
TempShield Reflective Insulation	Innovative Insulation Inc.	One or two layers of Barrier Bubble material laminated with aluminum foil. Provides resistance against conduction, convection, and radiation heat flow. Barrier against moisture, air currents, and vapors. Made with 20 percent recycled plastic.	www.radiantbarrier.com
Nordot Adhesive #113D	Synthetic Surfaces	Used for wood flooring, artificial turf adhesive, and other applications. Fights mold, VOC compliant, contains no flammable or toxic solvents, no negligible odor, and does not cause disposal problems.	www.nordot.com

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APPENDIX F

MEETINGS, CONFERENCES, AND OTHER EVENTS

NOTE: New events are highlighted in **blue**.
DOE-sponsored events are highlighted in **green**.

FEMP Training Calendar: www.eere.energy.gov/femp/newsevents/events.cfm

GENERAL ANNOUNCEMENTS

DATE	EVENT	SPONSOR
July 7, 2004	Natural Gas Cost Control	Association of Energy Engineers
July 8, 2004	Microturbines Seminar	Association of Energy Engineers
July 9, 2004	Fuel Cells Seminar	Association of Energy Engineers
July 12, 2004	Optimizing Boiler Efficiency	Association of Energy Engineers
July 13, 2004	Energy Auditing Fundamentals	Association of Energy Engineers
July 21, 2004	3D Load Profiling Using Interval Meter Data	Association of Energy Engineers
July 26, 2004	Facilities Management: Essentials & Critical Strategies for Success	Association of Energy Engineers
July 26, 2004	Motors: Operation, Efficiency & Economics	Association of Energy Engineers
August 2, 2004	Strategic Energy Planning	Association of Energy Engineers
August 5, 2004	Fundamentals of Lighting Efficiency	Association of Energy Engineers
August 16, 2004	Effective Energy Management Program Development	Association of Energy Engineers

ATLANTA REGION

DATE	EVENT	SPONSOR
July 11-15, 2004	ASME Heat Transfer/Fluids Engineering Summer Conference Charlotte, NC	American Society of Mechanical Engineers

F E M P M O N T H L Y U P D A T E

DATE	EVENT	SPONSOR
September 4-8, 2004	Sixth Symposium of the International Urban Planning and Environmental Association Louisville, KY	International Urban Planning and Environment Association and the Center for Environmental Policy and Management
September 16, 2004	Anatomy of a Green Lease Workshop Atlanta, GA	The Corporate Realty, Design, & Management Institute

BOSTON REGION

DATE	EVENT	SPONSOR
July 14-15, 2004	Life-Cycle Costing (Combined: Basic & Project Oriented) Boston, MA	Department of Energy's Federal Energy Management Program
July 20-22, 2004	FedFleet 2004: The Road to the Future is Now New York, NY	General Services Administration and the Federal Fleet Policy Council
August 4-6, 2004	Energy 2004 Pre-Workshop-Fundamentals of Measurement and Verification: Applying the New IPMVP Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 4-6, 2004	Energy 2004 Pre-Workshop-Skills Update III for Certified Energy Managers Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 6-7, 2004	Energy 2004 Pre-Workshop-Advanced Lighting Applications: Taking Your Lighting Systems to the Next Level Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 7, 2004	Energy 2004 Pre-Workshop-Cost Effective Commercial and Industrial Solar Applications Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 8, 2004	Energy 2004 Pre-Workshop-Training for Vendors: Doing Business with the Federal Government Rochester, NY	Department of Energy, Department of Defense, and General Services Administration

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DATE	EVENT	SPONSOR
August 8, 2004	Energy 2004 Pre-Workshop- Strategic Energy Planning Workshop Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 8, 2004	Energy 2004 Pre-Workshop- Introduction to Distributed Generation and Combined Heat and Power for Federal Energy Professionals Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 8-11, 2004	Energy 2004 Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 9, 2004	FEMAC Public Meeting Rochester, NY	Department of Energy's Federal Energy Management Program
August 11, 2004	Energy 2004 Post-Workshop- Biomass and Alternative Methane Fuels (BAMF) Baseball Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- Continuous Commissioning® – Your Best Energy Efficiency Investment After People Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- LEED Intermediate Training Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- DOE BestPractices Steam End User Training Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- Control Systems Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
August 12, 2004	Energy 2004 Post-Workshop- Energy Project Financing Rochester, NY	Department of Energy, Department of Defense, and General Services Administration

F E M P M O N T H L Y U P D A T E

DATE	EVENT	SPONSOR
August 12, 2004	Energy 2004 Post-Workshop-Resource Efficiency Management (REM) Rochester, NY	Department of Energy, Department of Defense, and General Services Administration
September 9, 2004	Anatomy of a Green Lease Workshop Boston, MA	The Corporate Realty, Design, & Management Institute

CHICAGO REGION

DATE	EVENT	SPONSOR
July 20-23, 2004	Engineering Green Buildings Cleveland, OH	HPAC Engineering
July 22-24, 2004	BELL 2004: Building a Sustainable City through Sustainable Enterprise	Stuart Graduate School of Business
July 26, 2004	Anatomy of a Green Lease Workshop Kansas City, MO	The Corporate Realty, Design, & Management Institute
July 26-27, 2004	FEMP Building Energy and Water Conservation Workshop Cleveland, OH	Department of Energy's Federal Energy Management Program
July 28-29, 2004	FEMP Building Energy and Water Conservation Workshop Minneapolis, MN	Department of Energy's Federal Energy Management Program
July 28, 2004	Anatomy of a Green Lease Workshop Minneapolis, MN	The Corporate Realty, Design, & Management Institute
October 4, 2004	Labs21 High Performance, Low-Energy Design Course St. Louis, MO	Department of Energy and the Environmental Protection Agency

DENVER REGION

DATE	EVENT	SPONSOR
July 9, 2004	Implementing a Strategic Environmental Management System: Tips, Tricks, Tools, and Techniques Denver, CO	National Association for Environmental Management
July 10, 2004	Sustainability Fair 2004 Livingston, MT	Corporation for Northern Rockies

F E M P M O N T H L Y U P D A T E

DATE	EVENT	SPONSOR
August 28-September 3, 2004	World Renewable Energy Congress VIII and Expo Denver, CO	Department of Energy, American Council on Renewable Energy, Xcel Energy, World Renewable Energy Network and others
September 15-16, 2004	Hands-On Distributed Energy Resources Training Albuquerque, NM	Department of Energy's Federal Energy Management Program
September 22-24, 2004	27 th World Energy Engineering Congress & High Performance Facilities Expo Austin, Texas	Association of Energy Engineers and Austin Energy
October 5, 2004	Anatomy of a Green Lease Workshop Houston, TX	The Corporate Realty, Design, & Management Institute
October 27, 2004	Anatomy of a Green Lease Workshop Denver, CO	The Corporate Realty, Design, & Management Institute

PHILADELPHIA REGION

DATE	EVENT	SPONSOR
July 7-8, 2004	Implementing Renewable Energy Projects Annapolis, MD	Department of Energy's Federal Energy Management Program
July 8, 2004	Mid-Atlantic CHP Applications Center Roadmapping Workshop College Park, MD	Department of Energy's Philadelphia Regional Office
July 19-22, 2004	National Workshop on State Building Energy Codes Philadelphia, PA	Department of Energy's Building Energy Codes Program
July 20-21, 2004	Introduction to ESPC Washington, D.C.	Department of Energy's Federal Energy Management Program
July 21, 2004	Measurement & Verification for Super ESPC Projects	Department of Energy's Federal Energy Management Program
September 8, 2004	U.S. DOE Mid-Atlantic Hydrogen Learning Workshop Annapolis, MD	Department of Energy's Philadelphia Regional Office
September 13, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute

F E M P M O N T H L Y U P D A T E

DATE	EVENT	SPONSOR
September 15, 2004	Anatomy of a Green Lease Workshop Washington, D.C.	The Corporate Realty, Design, & Management Institute
September 16-18, 2004	Bridging the Gap: Sustainable Environment Philadelphia, PA	University of Pennsylvania, Wharton School
October 28, 2004	Federal Energy and Water Management Awards Washington D.C.	Department of Energy's Federal Energy Management Program

SEATTLE REGION

DATE	EVENT	SPONSOR
June 27-30, 2004	District Energy/CHP 2004: IDEA's 95 th Annual Conference and Trade Show Seattle, WA	International District Energy Association & Seattle Steam Company
July 9-14, 2004	SOLAR 2004 Portland, OR	Department of Energy, Energy Trust of Oregon, and Eugene Water and Electric Board
July 23-25, 2004	SolWest Renewable Energy Fair John Day, OR	SolWest
August 4 -7, 2004	Southwest Sustainability Expo Flagstaff, AZ	American Solar Energy Society, Arizona Department of Commerce, ETA Engineering and others
September 1-3, 2004	Deconstruction and Building Reuse Conference Oakland, CA	Used Building Materials Association, Environmental Protection Agency and Alameda County Waste Management Authority
September 28-29, 2004	Energizing the Northwest, Today and Tomorrow Portland, OR	Department of Energy's Bonneville Power Administration
October 7, 2004	Anatomy of a Green Lease Workshop Phoenix, AZ	The Corporate Realty, Design, & Management Institute
October 11, 2004	Anatomy of a Green Lease Workshop San Francisco, CA	The Corporate Realty, Design, & Management Institute

F E M P M O N T H L Y U P D A T E

DATE	EVENT	SPONSOR
October 14, 2004	Anatomy of a Green Lease Workshop Los Angeles, CA	The Corporate Realty, Design, & Management Institute
October 14-15, 2004	Federal Utility Partnership Working Group Conference Downey, CA	Department of Energy's Federal Energy Management Program

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